AMENDMENTS TO THE CLAIMS

Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Previously Presented) An articular implant having a first surface and a second surface

wherein the first surface opposes a first articular surface of a joint and the second surface

opposes a second articular surface of the joint and further wherein at least a portion of

each of the first and second surfaces of the implant has a three-dimensional shape that

substantially conforms with or duplicates the shape of the first articular surface so as to have at least one of a convexity and a concavity on the first and second surfaces of the

implant, wherein movement of the implant in the joint is limited without an attachment

mechanism.

2. (Original) The implant of claim 1 wherein the implant is placed within a joint selected

from the group consisting of: knee, hip, shoulder, elbow, wrist, finger, toe, and ankle.

3. (Original) The implant of claim 1 wherein the superior surface and the inferior surface

have a three dimensional shape that substantially matches the shape of at least one of the

articular surface that the superior surface abuts and the inferior surface abuts.

4. (Original) The implant of claim 1 wherein the implant has a thickness of a cartilage

defect in a patient.

5. (Original) The implant of claim 1 wherein the implant has a thickness of 85% of a

cartilage defect in a patient.

6. (Original) The implant of claim 1 wherein the implant has a thickness of between 65%

100% of a cartilage defect of a patient.

7. (Original) The implant of claim 1 wherein the implant has a thickness of a cartilage

defect in a patient plus an offset value.

8. (Original) The implant of claim 1 wherein the implant has a thickness of 85% of a

cartilage defect in a patient plus an offset value.

9. (Original) The implant of claim 1 wherein the implant has a thickness of between 65%-

100% of a cartilage defect of a patient plus an offset value.

 $10.\ (Original)\ The\ implant\ of\ claim\ 1\ wherein\ the\ implant\ is\ constructed\ of\ a\ material$

comprising metal or metal alloy.

11. (Original) The implant of claim 1 wherein the material comprises one or more

biologically active materials.

12. (Original) The implant of claim 10 wherein the implant is coated with a biologically

active material

13. (Original) The implant of claim 1 wherein the implant is comprised of a metal or

metal alloy and a polymer.

14. (Previously Presented) The implant of claim 1 further having a structure for

stabilization on at least one of the first surface or the second surface selected from the

group consisting of: ridges, lips and thickenings.

15. (Previously Presented) The implant of claim 14 further having a plurality of structures

for stabilization.

 $16.\ (Previously\ Presented)\ The\ implant\ of\ claim\ 15\ wherein\ the\ stabilization\ mechanism$

engages the tibial spine.

17. (Original) The implant of claim 1 further having a peripheral structure selected from

the group consisting of ridges and lips.

18. (Original) The implant of claim 17 wherein the peripheral structure extends along an

entire perimeter of the implant.

19. (Original) The implant of claim 18 wherein the peripheral structure extends along a

portion of a perimeter of the implant.

20. (Original) The implant of claim 1 wherein each of the first surface and second surface

have a slope relative to a longitudinal axis through the implant and further wherein the

slope of the first surface relative to the slope of the second surface is selected from the

group consisting of: positive, negative, and null.

21. (Original) The implant of claim 1 wherein the implant duplicates the shape of one of

the first and second articular surface.

22. (Original) The implant of claim 21 wherein the implant is selected from a library of

implants.

23. (Original) The implant of claim 1 wherein the implant changes configuration after

insertion into a joint.

24. (Original) The implant of claim 1 wherein the implant changes configuration during

loading.

25. (Original) The implant of claim 1 wherein the implant further comprises a first component and a second component.

26. (Original) The implant of claim 25 wherein the first and second component are one of: integrally formed, indivisibly formed, interconnectedly formed, and interdependently

or, integrany formed, indivisiony formed, interconnectedry formed, and interdependently

formed.

27. (Original) The implant of claim 25 wherein the first component engages the joint in at

least one of fixedly, slideably, rotatably.

28. (Original) The implant of claim 25 wherein the second component engages the joint

in at least one of fixedly, slidably, and rotatably.

29. (Previously Presented) The implant as in any one of claims 25, 26, 27, or 28 wherein

the first component engages the second component.

30. (Previously Presented) The implant as in any one of claims 25, 26, 27, or 28 wherein

the first component fits within the second component.

31. (Previously Presented) The implant as in any one of claims 25, 26, 27, or 28 wherein

the first component slideably engages the second component.

32. (Previously Presented) The implant as in any one of claims 25, 26, 27, or 28 wherein

the first component rotatably engages the second component.

33. (Previously Presented) The implant as in any one of claims 25, 26, 27, or 28 wherein

a portion of the implant has a magnet.

34. (Previously Presented) An articular implant having a first surface and a second

surface wherein the first surface opposes a first articular surface of a joint and the second

surface opposes a second articular surface of the joint and further wherein at least a portion of each of the first and second surfaces of the implant has a three-dimensional shape that substantially conforms with or duplicates the shape of the first articular surface so as to have at least one of a convexity and a concavity on the first and second surfaces of the implant, the first articular surface being one of a substantially uncut articular cartilage surface and a substantially uncut subchondral bone surface, wherein the implant has a plurality of components, and wherein a first component of the plurality of components engages a second component of the plurality of components in at least one of slideably and rotatably.

35. (Original) The implant of claim 34 wherein a first component of the plurality of components engages the joint in at least one of fixedly, slideably, and rotatably.

36. (Original) The implant of claim 34 wherein a second component of the plurality of components engages the joint in at least one of fixedly, slidably, and rotatably.

37. (Cancelled)

38. (Previously Presented) The implant as in any one of claims 34, 35 or 36 wherein the first component of the plurality of components fits within the second component of the plurality of components.

39. (Previously Presented) The implant as in any one of claims 34, 35 or 36 wherein the first component of the plurality of components slideably engages the second component of the plurality of components.

40. (Previously Presented) The implant as in any one of claims 34, 35 or 36 wherein the first component of the plurality of components rotatably engages the second component of the plurality of components.

41. (Previously Presented) The implant as in any one of claims 34, 35 or 36 wherein the first component of the plurality of components rotatably and slidably engages the second component of the plurality of components.

42. (Original) The implant of claim 1 wherein the implant has a shape formed along a perimeter selected from the group consisting of: circular, elliptical, ovoid, kidney shaped, substantially circular, substantially elliptical, substantially ovoid, and substantially kidney shaped.

43. (Original) The implant of claim 1 wherein the implant has a cross-sectional shape of at least one of an inferior surface and a superior surface selected from the group consisting of spherical, hemispherical, aspherical, convex, concave, substantially convex, and substantially concave.

44. (Original) The implant of claim 1 wherein the implant is a cartilage defect conforming implant.

45. (Original) The implant of claim 1 wherein the implant is a cartilage projected implant.

46. (Original) The implant of claim 1 wherein the implant is a subchondral bone conforming implant.

47. (Original) The implant of claim 1 wherein the implant is surgically implanted via an incision of 10 cm or less.

48. (Original) The implant of claim 1 wherein the implant is surgically implanted via an incision of 6 cm or less.

49. (Original) The implant of claim 1 wherein the implant is surgically implanted via an incision of 4 cm or less.

- 50. (Original) The implant of claim 1 wherein the range of motion of the joint is restored to between 80-99.9% of normal joint motion.
- 51. (Original) The implant of claim 1 wherein the range of motion of the joint is restored to between 90-99.9% of normal joint motion.
- 52. (Original) The implant of claim 1 wherein the range of motion of the joint is restored to between 95-99.9% of normal joint motion.
- 53. (Original) The implant of claim 1 wherein the range of motion of the joint is restored to between 98-99.9% of normal joint motion.
- 54. (Original) The implant of claim 1 wherein the joint is a knee joint and wherein a shape formed along a perimeter selected from the group consisting of: circular, elliptical, ovoid, kidney shaped, substantially circular, substantially elliptical, substantially ovoid, and substantially kidney shaped.
- 55. (Original) The implant of claim 1 wherein the joint is a knee joint and wherein the superior surface of the implant is substantially convex.
- 56. (Original) The implant of claim 1 wherein the joint is a knee joint and wherein the inferior surface of the implant is substantially concave.
- 57. (Original) The implant of claim 1 wherein the joint is a knee joint and wherein the superior surface of the implant is comprised of convex and concave sections.
- 58. (Original) The implant of claim 1 wherein the joint is a knee joint and the inferior surface of the implant is substantially concave.

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59. (Original) The implant of claim 1 wherein the joint is a hip joint and wherein a cross-

section of the implant is selected from the group consisting of: spherical and aspherical.

 $60. \ (Original)$ The implant of claim 1 wherein a periphery of the implant is of greater

thickness than a central portion of the implant.

61. (Original) The implant of claim 1 wherein a central portion of the implant is of

greater thickness than a periphery.

62. (Original) The implant of claim 1 having an anterior portion, posterior portion, lateral

portion and medial portion wherein the implant has a thickness along the posterior

portion of the device that is equal to or greater than a thickness of at least one of the

lateral, medial and anterior portion of the implant.

63. (Original) The implant of claim 1 having an anterior portion, posterior portion, lateral

portion and medial portion wherein the implant has a thickness along a posterior portion of the device that is equal to or less than a thickness of at least one of the lateral, medial

and anterior portion of the implant.

64. (Original) The implant of claim 1 having an anterior portion, posterior portion, lateral

portion and medial portion wherein the implant has a thickness along a medial portion of

the device that is equal to or less than a thickness of at least one of a anterior portion,

posterior portion, and lateral portion.

65. (Original) The implant of claim 1 having an anterior portion, posterior portion, lateral

portion and medial portion wherein the implant has a thickness along a medial portion of the device that is equal to or greater than a thickness of at least one of a anterior portion,

posterior portion, and lateral portion.

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66. (Previously Presented) The implant as in any one of claims 25 or 34 having an anterior portion, posterior portion, lateral portion and medial portion wherein at least one component of the implant has a thickness along the posterior portion of the device that is

equal to or greater than a thickness of at least one of the lateral, medial and anterior

portion of the implant.

67. (Previously Presented) The implant as in any one of claims 25 or 34 having an anterior portion, posterior portion, lateral portion and medial portion wherein at least one

component of the implant has a thickness along a posterior portion of the device that is

equal to or less than a thickness of at least one of the lateral, medial and anterior portion ${\bf p}$

of the implant.

68. (Previously Presented) The implant as in any one of claims 25 or 34 having an

anterior portion, posterior portion, lateral portion and medial portion wherein at least one component of the implant has a thickness along a medial portion of the device that is

equal to or less than a thickness of at least one of a anterior portion, posterior portion, and

lateral portion.

69. (Previously Presented) The implant as in any one of claims 25 or 34 having an

anterior portion, posterior portion, lateral portion and medial portion wherein at least one component of the implant has a thickness along a medial portion of the device that is

equal to or greater than a thickness of at least one of a anterior portion, posterior portion,

and lateral portion.

Claims 70-75 (Cancelled)

76. (Previously Presented) A method of making an implant suitable for a joint, the

method comprising the steps of: determining three-dimensional shapes of one or more articular surfaces of the joint; and producing an implant having a first surface and a

second surface, wherein the first surface and second surface of the implant oppose a first

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and second articular surface of the joint, respectively, and further wherein at least a portion of each of the first and second surfaces of the implant substantially conforms with

or duplicates the three-dimensional shape of the first articular surface so as to have a

plurality of convexities and a plurality of concavities on the first and second surfaces of

the implant, wherein movement of the implant in the joint is limited without an

attachment mechanism

77. (Original) The method of claim 76 wherein the three-dimensional shape is determined

by obtaining an image of the joint.

78. (Original) The method of claim 77 wherein the image is selected from the group

consisting of MRI, CT, x-ray, and combinations thereof.

79. (Cancelled)

80. (Previously Presented) A cartilage conforming implant having a first surface and a

second surface wherein the first surface opposes a first articular surface of a joint and the

second surface opposes a second articular surface of the joint and further wherein at least

a portion of each of the first and second surfaces of the implant has a three-dimensional

shape that substantially conforms with or duplicates the shape of cartilage on the first

articular surface so as to have a plurality of convexities and a plurality of concavities on

the first and second surfaces of the implant, wherein movement of the implant in the

joint is limited without an attachment mechanism.

81. (Cancelled)

82. (Cancelled)

83. (Cancelled)

84. (Previously Presented) A subchondral bone conforming implant having a first surface and a second surface wherein the first surface opposes a first articular surface of a joint and the second surface opposes a second articular surface of the joint and further wherein at least a portion of each of the first and second surfaces of the implant has a three-dimensional shape that substantially conforms with or duplicates the shape of subchondral bone on the first articular surface so as to have a plurality of convexities and a plurality of concavities on the first and second surfaces of the implant, wherein movement of the implant in the joint is limited without an attachment mechanism.

Claims 85-92 (Cancelled)

93. (Previously Presented) An articular implant having a first surface and a second surface wherein the first surface opposes a first articular surface of a joint and the second surface opposes a second articular surface of the joint and further wherein at least a portion of each of the first and second surfaces of the implant has a three-dimensional shape that substantially conforms with or duplicates the shape of the first articular surface so as to have at least one of a convexity and a concavity on the first and second surfaces of the implant, the first articular surface being one of substantially uncut cartilage and substantially uncut bone.

94. (Previously Presented) The implant according to claim 93, wherein the implant replaces less than 80% of the one of the first and second articular surfaces of the joint.

95. (Previously Presented) The implant according to claim 93, wherein the implant replaces less than 50% of the one of the first and second articular surfaces of the joint.

96. (Previously Presented) The implant according to claim 93, wherein the implant replaces less than 20% of the one of the first and second articular surfaces of the joint.

Claims 97-122 (Cancelled)

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123. (Previously Presented) The implant of claim 1, wherein the implant is placed in a joint associated with a vertebrae.

124. (Previously Presented) The implant of claim 1, wherein the implant height is adjusted to account for anatomic malalignment.

125. (Previously Presented) The implant of claim 1, wherein the implant height, profile or other dimension is selected or adjusted to correct ligamentous laxity.